

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/807,757

Source: PCT09

Date Processed by STIC: 5-1-01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

New Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	SERIAL NUMBER: <u>09/807 757</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input type="checkbox"/> Wrapped Nucleics	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".	
2 <input type="checkbox"/> Wrapped Aminos	The amino acid number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".	
3 <input type="checkbox"/> Incorrect Line Length	The rules require that a line not exceed 72 characters in length. This includes spaces.	
4 <input type="checkbox"/> Misaligned Amino Acid Numbering	The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.	
5 <input type="checkbox"/> Non-ASCII	This file was not saved in ASCII (DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text so that it can be processed.	
6 <input type="checkbox"/> Variable Length	Sequence(s) <input type="checkbox"/> contain n's or Xaa's which represented more than one residue. As per the rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.	
7 <input type="checkbox"/> PatentIn ver. 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) <input type="checkbox"/> . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
8 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) <input type="checkbox"/> missing. If intentional, please use the following format for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS") (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: This sequence is intentionally skipped Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).	
9 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) <input type="checkbox"/> missing. If intentional, please use the following format for each skipped sequence. <210> sequence id number <400> sequence id number 000	
10 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of <220> to <223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
11 <input type="checkbox"/> Use of "Artificial" (NEW RULES)	Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.	
12 <input checked="" type="checkbox"/> Use of <220>Feature (NEW RULES)	Sequence(s) <input type="checkbox"/> are missing the <220>Feature and associated headings. Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial Sequence" or "Unknown" Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)	
13 <input type="checkbox"/> PatentIn ver. 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other means to copy file to floppy disk.	

PCT

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/807,757

DATE: 05/01/2001
 TIME: 11:30:08

Input Set : A:\Sequence Listing (JB0930.WPD;1).txt
 Output Set: N:\CRF3\05012001\I807757.raw

Does Not Comply
 Corrected Diskette Needed

See pp. 3, 4

4 <110> APPLICANT: OWENS, Gary K.
 5 MACK, Christopher
 6 BLANK, Randall
 8 <120> TITLE OF INVENTION: Compositions and Methods for Modulating
 9 Expression within Smooth Muscle Cells
 12 <130> FILE REFERENCE: 9426-016-228
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/807,757
 C--> 14 <141> CURRENT FILING DATE: 2001-04-17
 14 <150> PRIOR APPLICATION NUMBER: US60/105,330
 15 <151> PRIOR FILING DATE: 1998-10-23
 17 <160> NUMBER OF SEQ ID NOS: 18
 19 <170> SOFTWARE: FastSEQ for Windows Version 4.0

ERRORED SEQUENCES

21 <210> SEQ ID NO: 1		
22 <211> LENGTH: 5342		
23 <212> TYPE: DNA		
24 <213> ORGANISM: Rodent		
26 <400> SEQUENCE: 1		
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28 taaaacactat cacccccctgg ctttcgaga ccttatatatg cacaagcatg tgcccttgta	120	
29 catgtaaatg tgcacacaca gaggcatgca cacctgacat cataccaaag caaagatgaa	180	
30 atgaagttaga aatgtcaact ctacatattt tggtggtaa tagttgcatt tgccatgtgg	240	
31 ctactgcattt aggagttgt gattctggc attcctgtca ctaccagacg taactcacca	300	
32 ataccatgtt aagtcatctc tggaccagag cccagtgagg actaaaatgg tctccatgttc	360	
33 tcaagggtgt aactataaacatcatctaa tcaçattgcg gagacattct gtgtatgtcg	420	
34 tggagcaata cagctggaga tgactcttca gtgtgtgtctt atagcttgg tttatttct	480	
35 agttccctgt aactgcacacc aagtgaccag atgtacgctc cccaaatcagt ccatacgctcc	540	
36 ttgcattccat ggctgccaac cctggcagtt atctaaagcgc tcagtgagtc tctgtaaact	600	
37 tgtacgcact catccagtgg gcctttctct cccagaagag actggagctg gatataaaat	660	
38 ctcaaactct ggctggagag atggctcagt gtttaagagc actgactgtct cttccagagt	720	
39 tcaaataccca gcaaccacat ggtggcttac agccatctgt aatgatattt gataccctct	780	
40 tctggtgtat ctgaagacag ttacactgtg ctctataataa ataaataaaat ataagtaaat	840	
41 aaataaataaa atatttttaa aaaccctcaa actcacacat tgtgaccatt aattacttgc	900	
42 tcaaaaattt agcaaatctt ccttgggttac tttagattgc tttttgaaat tcttaaaaata	960	
43 aataaaacaa ctgaaactta ctttcttctt ctgtcataa tattctgatt attgacaaat	1020	
44 acaaccagta taaacaaaaaa agttataaga ttatcaaagc tctttcttg gtttttaaag	1080	
45 gaatttagcat cttgaaatga ccaagacaac actccaaacac tcatgaaaca aaacatcagc	1140	
46 acagatatcc atgccaggtt cttaagtaaa aaataaaaaca agaaacaaaa acaaaaacaaa	1200	
47 aaaaaacaaa aaaacaaaaga aaaacatggaa actttacttt atatgatgcc tatgataaaa	1260	
48 ccgggttgcatt taatcataaa tggccatcc tgccctcacaa aatgcgtct ctgtatttga	1320	
49 gtgatcgacg aatgtatttc tagttggtaa aaccagatac agatgaaaa actcttaagc	1380	
50 aacacaaaga agccccattn ttattnagca accattacac tcttctaaga gtcaacggtg	1440	
51 taattctcaa agacagctat gctgtgcctgg gtgcagggtgg acaccattaa tcaagagcat	1500	
52 gagacatggt agcgtgagta gacagctgtc ggcattcacc ctggcttgc cctgacatgc	1560	

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Input Set : A:\Sequence Listing (JB0930.WPD;1).txt
Output Set: N:\CRF3\05012001\I807757.raw

53	caacagttca gagccactta tggatccgtc taaaatatct ccatcatgaa ttgaatcaga	1620
54	accttggctt gcaggaggg agtagagaaa ggttaagtgc ttgactgtcc attgaagcca	1680
55	aagagctgat gatgtcttg aagaatggca gggtcacttg atcgctctt ctgtccagtg	1740
56	ggctcataaa cacggaggag gatgagcagg cttcatttca acatttcaaa cttctttac	1800
57	aattttttt atgacggggc aatgggtctt ctctgtggcc aaaagacggt ccttaagcat	1860
58	gatatcaggg gtcagcgata aaccaacaac atgcacgtgg actgtaccta ggggttaacg	1920
59	cagttacagt gattctgact tctaagttcc tcttagggta acatagctg gtgaatcctg	1980
60	attacatact tccatatgtt atacatacag acttcattgt tactacacac agactccaga	2040
61	ctacatacaa tgtggcttcc ataaaatgtat cactcctctg cagattcgea ggtgaccCAA	2100
62	gcatcttttgc ttataggcata ccttttgcAA cagtgttgc ttAAAGTCCC agctagtca	2160
63	agacaggccc ttccatct caagcccttA gtaatggac ccaaaggcata gcctgacagg	2220
64	aagagctggc atcttctgag gaatgtgca accatgcctg cgtctgcttca atgacactag	2280
65	cccaagtgtct gggcatttga gcagggttgc tgagggtctca ggatgtttat cccataagc	2340
66	agctgaactg cctcctgttt cgagagcaga gcagaggaat gcagtggaaag agacccaggc	2400
67	ctctggccac ccagattaga gagtttgtg ctgagggtccc tatatgttg tggtagatgt	2460
68	aacggccagc ttcaagctgt ctgttgcctt tgtttggaa gcgagtgggaa ggggatcaga	2520
69	ccagggggct atataaccct tcagcattca gcctccccag acaccaccca cccagagtgc	2580
70	agaagcccaag ccagtcgcca tcagggtaaag gatgtactt agagtttcc caggttttt	2640
71	aatcatccag tggAACcaga cgttgtctgt agtaatctga atgactoACA tggggaaat	2700
72	ttgggataaa agatttatgc tgtaaaaaatg attgtagctc cttagcttgc atgatttcgt	2760
73	atctaaacgg gactaaaaat gaatgtgtt tactggcaaa aggagatgga gaggaaatta	2820
74	aagtgggtt atgcgtggca tctgttgcattt ctgtttcac taaaccaact gctcgatcc	2880
75	cgcagccctac tataggggag aagtccagcc atctatggta aattatacat ttgtttctac	2940
76	ttaggtgttgc gacacttgcg gatttgcata tggttgcagac ttgtgtgag gactttccat	3000
77	ctgaccgact acagccgggt taactggaaat tggtatgtcag ggtgaactg ggcgggttgc	3060
78	ctgcgtctg gttttggctg agtggactgc gttgcctctg gtttccggg gctctaacag	3120
79	tagacatgtt tatcttgc ctttacgatt caaacctatg tcattgtca tttcagcaaa	3180
80	agcatagctc ctctactctc tgcaagaaa tgaggaatgt tctcattcgg gaaggatctg	3240
81	attgcgtttc tctgcctcaa gtgtcccttgc ggccccttag gcagaatctc tggggagcc	3300
82	accccactca ggacttggta acttgcgcg gaaaaacggag ttttctcgat aagattttcc	3360
83	tcccttttg tgattcatgtt ctaaatatgg tttgcgtttt gagactcaca aactggggaa	3420
84	ggttactgtc ctttcccttcc ccctccccctc ccctcttaca attcattttt ggacacaagat	3480
85	gagctccact gtgtgcacc aaactccccg gcctcggttgc cagttccaaa agccggacgt	3540
86	ggagcccaagt gtgttttacc taatttagaa atgcgtccctt cttcaaaactg aagctgctcc	3600
87	ttcaggttag ataagagtttgc caaaccacag cggcgtttc ctctggaaac acaccgacgt	3660
88	cttctcttagt gacgacgcgc ttttcaaaagc ttattaaagac atattttctg gatattttgg	3720
89	atgaagtaga aatacgttct tactgaatttgc tgatgttttta cttgcatttt aaaaaaaaaac	3780
90	taggaagctt atttctctgtt atataactaaatgc acacaacccat aagtcatctt gccaacagt	3840
91	ttatgtgggt tatccctccc cgttttcaaa gggcatccta attccgagtgc gtttatctca	3900
92	tttgcagccc ggatgtatgt ttttggacag caggcttccct gttagactctc tgctggctt	3960
93	ttgtctgtgg ctgcctctgc caatcacctg gtcgtgtgc ctctctgtgc ttggagactg	4020
94	tcttcgtactt ctttatctgtc cactggaaatg gaagctaaat ataaattcag tgcgttgc	4080
95	aagaggcaga gtagagagag gaaagagcaa accaaccaag atcccatTTT tccgttcttgc	4140
96	tgagggaaac ccaggcatttgc aagatttgc tctgttttgc gaggcagggt ttgaaaggaa	4200
97	acccaaatca caaacagaat ctctgggtaa agacaatagt cacatgtga gatgacaaag	4260
98	caatgtttgtt acaatgcctt tgatgtcccc cgaagctgtc gaaaacacaa gcttaaaatgt	4320
99	caattactta aaatgttattttaaagccaa aagatgtatgt gctcaggtag tcaaggtag	4380
100	aagaaatacc agaactcagg ggagaaaaaa atatttataa aacctgatac ttgccacttc	4440
101	caaagaaccc cagtaaatat tttggagaga ataagtaagc tttgggggttgggg	4500

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/807,757

DATE: 05/01/2001

TIME: 11:30:08

Input Set : A:\Sequence Listing (JB0930.WPD;1).txt
 Output Set: N:\CRF3\05012001\I807757.raw

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102 gggcaattca cttnnttata cggcatatt aagtttctt ctgttaactta tcagtcttaa 4560
103 gtaagaatag ctattatcat ccttgtggg tttcagctta gcagtgatt tgattaatga 4620
104 gggaaatgttg taaaatccaa aattgcaaac tccccatca aaaattttca atccaatatt 4680
105 tttaactaga gtaggacttg gtagccttc aacttgtat cctcctgcct cagttccca 4740
106 agtggtagga tcacaggct acatcaccac gcccagtctt gattcatgtc taatgccaca 4800
107 ccagcaccca agtctcaga gacaaaagat ttttcttta aacatattaat atgagcaaac 4860
108 attttaacat tctcatatgc tgcccattat tccaaaatct accttttgg gggaaaatat 4920
109 attttaccaa aaaaaaaaaa gacttgggt tgatataaat aacaacacctt gtttgatat 4980
110 agataacaaa ctttctaga tagttctta acatgtggta tcactattcc ctatagacct 5040
111 gtgttctcca ctcaggacct ctcatctgt ctctgtggcc tgttcacaca ctaatgctct 5100
112 gccctgcttg agagtggtaa aagagcctgt gagctcctgc tctttgtct gagggcttgt 5160
113 ggtgctaacc tggaaagtca ggttcagct catcaaaggc cttacagtct ggtgaaagca 5220
114 ttcaagata aagagtgtta gttgagatct ggggagagcg tccagctaaa ataacacaac 5280
115 agggccaaga accctgggtt tggttgggag tgaccgtagg ctccggccaa acgcaacactc 5340
E--> 116 ga
E--> 117 2
118 <211> LENGTH: 326
119 <212> TYPE: DNA
120 <213> ORGANISM: Rodent
W--> 122 <210> SEQ ID NO:
E--> 122 <400> SEQUENCE: 2
123 gggaaacggag ttttctcgat aagatttcc tccccctttg tgattcatga ctaaatatgg 60
124 ttgcgtttt gagactcaaca aactggggaa ggtaactgtc ctttcctctt ccctccctc 120
125 ccctcttaca attcattttt ggcacaagat gagctccact gtgctgcacc aaactccccg 180
126 gcctcggtg cagttccaaa agcggacgct ggagcccaagt gtgtttacc taatttaggaa 240
127 atgcctccctg cttcaaaactg aagctgtcc ttcaaggtag ataagagttg caaaccacag 300
128 cggcagtttc ctctggaaac acaccc 326
E--> 130 <210> SEQ ID NO: 3

```

4560
 4620
 4680
 4740
 4800
 4860
 4920
 4980
 5040
 5100
 5160
 5220
 5280
 5340
 5342 <210>

Enter "hard return" where arrow indicate to move <210> to beginning of next line.
 This should correct errors shown.

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p. 4

<210> 11
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide

<400> 11
aattgtttaa

10

<210> 12
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide

<400> 12
cccttatatca

10

<210> 13
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide

<400> 13
aataattaaa

<210> 14
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide

<400> 14
ttgctccttg tttggaaagc

20

<210> 15
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide

<400> 15
gaggtccta tatggtttg

20

What is the source of
the genetic material in
the artificial sequences?

Oligonucleotide is not
specific enough. See
12 on the Error Summary
Sheet.

Note: This error also occurs
in sequences 16, 17, and 18.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/807,757

DATE: 05/01/2001

TIME: 11:30:09

Input Set : A:\Sequence Listing (JB0930.WPD;1).txt
Output Set: N:\CRF3\05012001\I807757.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:116 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:5344 SEQ:1
L:116 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:9
M:254 Repeated in SeqNo=1
L:117 M:252 E: No. of Seq. differs, <211>LENGTH:Input:5342 Found:5344 SEQ:1
L:122 M:282 W: Numeric Field Identifier Missing, <210> is required.
L:122 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:1 differs:2
L:130 M:214 E: (33) Seq.# missing, SEQ ID NO:2